

**Compounds and Methods for Modulating Phosphodiesterase 10A**

**Abstract**

Novel compounds that modulate PDE10A, a gene that is primarily expressed in  
5 medium spiny neurons of the mammalian striatum and has been found to inhibit striatal  
output by reducing spiny medium excitability and effect cAMP and cGMP signalling  
cascades *in vivo* in rats, and methods for treating psychosis and schizophrenia using the  
novel compounds. Methods for screening for further compounds to modulate PDE10A  
activity are also taught.